

1 Attorney Docket: HandlyRA-004

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3 CENTERLESS GROUND THERMAL DESORPTION TUBE

4 AND METHOD WITHOUT FRIT

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6 ABSTRACT OF THE DISCLOSURE

7 A centerless ground thermal desorption tube comprises an outer barrel and one or
8 more inner spacers insertably positioned within the outer barrel. A suitable sorbent
9 material is positioned within the outer barrel which may be held in place by friction
10 and/or with glass wool plugs, and/or screens, and/or the inner spacers. In one preferred
11 embodiment one glass inner spacer is fused to one end of a glass outer barrel prior to the
12 glass outer barrel being centerless ground to a high precision. The sorbent and/or any
13 wool plugs and/or screens are inserted into a second opposite end of the outer barrel after
14 the centerless grinding process. A second glass is fused to the second end of the glass
15 outer barrel whereby the glass fusing may change the precise tolerance of the centerless
16 ground glass outer barrel at the second end only.